

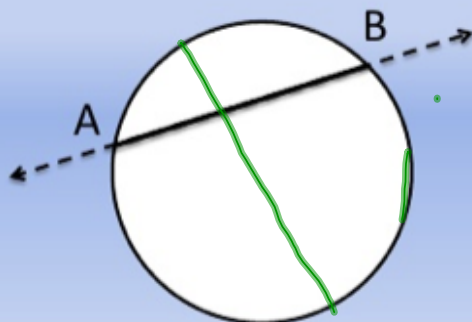
Circle Terminology

Diagram illustrating circle terminology. It shows five circles of different colors (yellow, blue, red, green, purple) arranged in a row. To the right, a larger blue circle is shown with a central black dot representing its center.

Circle - The set of all points in a plane that are equidistant from a point called a center.
same length

Center - middle of the circle or the midpoint of the diameter.

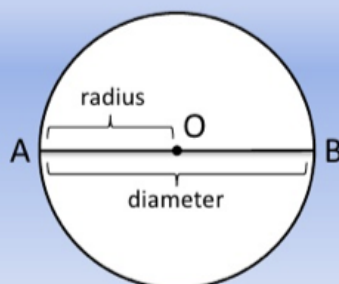
A **chord** of a circle is a segment whose endpoints lie on the circle.



In the figure, \overline{AB} is a chord.

A **diameter** of a circle is a chord containing the center. It is the longest chord.

A **radius** of a circle is a segment from the center to a point on the circle.



Radius = \overline{AO}

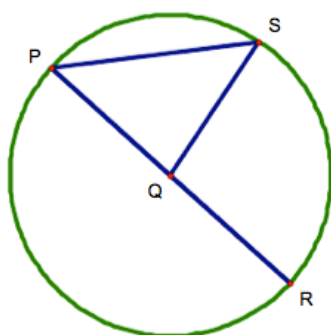
Diameter = \overline{AB}

What is the relationship between a radius & a diameter?

A radius $\frac{1}{2}$ of a diameter

2 radii = 1 diameter

Identify the following as a radius, diameter, or chord.



PS- *Chord*

QP- *radius*

QS- *radius*

PR- *diameter*
Chord

Circumference- The distance around a circle

Discuss the following with your partner:

1. How can you determine the center of a circle?
2. How can you physically measure the circumference?



Objective: measure the circumference and diameter of several circles to calculate the ratio of circumference to diameter for each in an attempt to identify the value of pi and the circumference formula.



Image: "Pi sculpture"
www.flickr.com/photos/35034351734@N01/21582841

You may use the materials on the table to complete your task.

